

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (canceled)
2. (currently amended) A method of vasodilating a blood vessel *in vitro*, the method comprising exposing *in vitro* an isolated blood vessel to be implanted into a patient to a physiologically acceptable solution that comprises an exogenous substrate for an SSAO enzyme
~~The method of claim 1~~ wherein the exogenous substrate has a chemical formula of



wherein R₁ is ~~chosen~~ selected from a group consisting of H, OH, NH₂, and COOH, and wherein

- (a) X₁ is an alkyl having between one and twelve carbons,
- (b) X₁ is a C₆ aromatic ring, or
- (c) X₁ comprises a single C₆ aromatic ring and further comprises between one and eleven alkyl carbons.

3. (original) The method of claim 2 wherein X₁ is CH₂.
4. (original) The method of claim 3 wherein the exogenous substrate is present in the physiological solution at a concentration of between 0.01 and 100 millimolar.
5. (original) The method of claim 3 wherein X₁ is CH₂, and R₁ is H, whereby the substrate has the formula CH₃NH₂.

6. (withdrawn) The method of claim 2 wherein X₁ comprises a C₆ aromatic ring.
7. (withdrawn) The method of claim 6 wherein R₁ is H.
8. (withdrawn) The method of claim 7 wherein the exogenous substrate is present in the solution at a concentration of between 0.01 and 100 millimolar.
9. (currently amended) A method of vasodilating a blood vessel *in vitro*, the method comprising exposing *in vitro* an isolated blood vessel to be implanted into a patient to a physiologically acceptable solution that comprises an exogenous substrate for an SSAO enzyme
~~The method of claim 1~~ wherein the exogenous substrate has a chemical formula of



wherein R₁ is ~~chosen~~ selected from a group consisting of H, OH, NH₂, and COOH, X₂ is ~~chosen~~ selected from a group consisting of H, OH, NH₂, COOH, and alkyls having between one and three carbons, X₃ is ~~chosen~~ selected from a group consisting of H, OH, NH₂, COOH, and alkyls having between one and three carbons, and wherein

- (a) ~~X₁ is an alkyl having between one and twelve carbons;~~
~~(b)~~ (a) X₁ is a C₆ aromatic ring, or
(e) (b) X₁ comprises a single C₆ aromatic ring and further comprises between one and eleven alkyl carbons.

10. (original) The method of claim 9 wherein the exogenous substrate is present in the solution at a concentration of between 0.01 and 100 millimolar.
11. (original) The method of claim 9 wherein the exogenous substrate is present in the solution at a concentration of between 0.1 and 10 millimolar.

12. (currently amended) The method of claim [[1]] 2 wherein the physiological solution comprises a buffer having an osmolarity in the range of about 280 to about 350 milliosmolar that buffers the solution to maintain a pH in a range of about 7.0 to about 7.8.

13-55. (canceled)